

PROJECT: Midnite Mine Remediation REPORT NO: 2021-32

OWNER: Newmont/Dawn Mining OPERATOR: Newmont/Dawn Mining

#### SUMMARY OF WORK ACTIVITIES OR EVENTS FOR THIS REPORTING PERIOD:

This weekly report provides a summary of Midnite Mine Site (Site) remediation action (RA) construction activities, quality assurance (CQA), quality control (CQC) and engineering activities for the period October 29 – November 4, 2021. The Site activities discussed in this weekly report include, but are not limited to: Site Health, Safety, and Security; Community Liaison, Project Meetings, Regulatory Oversight, Site Visitors; Site Mobilization; RA Activities; Project Documentation; and Site Inspections.

The project SharePoint site includes the Project documentation discussed in this report. Access to the project SharePoint site is available at the following link: (b) (6)

# SITE HEALTH, SAFETY, AND SECURITY

MIDNITE MINE HEALTH & SAFET 2021	Y SU	MMARY: Reporting Period October 29 – November	4,
FIRST AID INJURY	0	PROPERTY DAMAGE	0
MEDICALLY TREATED INJURY	0	NEAR MISS INCIDENT	0
RESTRICTED WORK INJURY	0	RADIATION PROTECTION PLAN (RPP) – ISSUES REPORTED	0
LOST TIME INJURY	0		
Comments:			

#### **COMMUNITY LIAISON**

- Newmont and Envirocon met with the TERO director and committee members to discuss the end of the 2021 construction season.
- Members of the Tribal council participated in an end of season tour of the Midnite Mine on October 21.

# PROJECT MEETINGS, REGULATORY OVERSIGHT, AND SITE VISITORS

## **Weekly Progress Meeting:**

The following stakeholders attended the Weekly Construction Progress meeting via a conference call on Wednesday, 3 November 2021 at 10:00 am;

- EPA
- Spokane Tribe of Indians
- Army Corps of Engineers (USACE)
- Dawn Mining Company (DMC)/Newmont
- WME
- AJAX
- Stantec



#### **Meeting Action Items:**

 EPA requested a summary of 2021 completed construction activities, including estimated quantities and manpower.

#### **EPA Plan/Document Approvals:**

None.

#### **Regulatory Site Visit(s):**

None.

## REMEDIAL WORK ACTIVITIES

#### **Construction:**

During the week of October 29 – November 4, 2021, the following activities were conducted:

- Newmont excavated, hauled, and placed a small amount of low activity/low reactivity material from the
  west side of the South Waste Rock Pile (SWRP). Newmont placed the material around the risers in the
  Pit 4 Waste Containment Area (WCA) to build the area up for installation of the backup dewatering pumps
  in the Underdrain and Waste Rock Dewatering Sumps.
- Newmont repaired the damaged friction sleeve on the Waste Rock Dewatering Riser and installed the
  next riser section. Newmont was able to bend the damaged portion of the friction sleeve back into
  position without cutting it, therefore, no welding was required or performed.
- Newmont routed pipelines to the South Pond that had previously reported to Pit 3. Pipelines that were
  routed to the South Pond include the pipelines from the Pollution Control Pond (PCP), the Blood Pool,
  and the Pit 4 Horizontal Dewatering System (HDS).
- SLV Earthmovers completed crushing and screening operations to produce Drain Gravel and
  Geomembrane Bedding at the Hillside Waste Rock Pile (HSWRP) for the season. Newmont hauled
  these materials to stockpile locations designated in the 2021 Crushing and Stockpiling Work Plan
  (Stantec, 2021). Estimated quantities of materials produced are presented in Table 1. The aggregate
  production volume includes materials produced during the previous reporting period but were hauled to
  stockpile during this reporting period.
- Collection of Quality Control samples from the crushing and screening operation continued with samples
  of Drain Gravel, and Geomembrane Bedding submitted to Budinger and Associates for gradation
  analysis. All products conformed with project specifications.
- Stantec performed the weekly South Pond Embankment inspection and downloaded transducer data from the South Pond Piezometer. The embankment remains stable and water levels in the piezometer remain steady.
- Halme Construction completed Effluent Pipeline construction activities for the construction season and performed additional density testing of trench backfill.

Table 1 – 2021 Production Estimates

	Rep	orting Perio	d	Year-to-date			Annual	
Material	Planned Production (yd3)			Planned Production (yd3)	Estimated Volume <sup>1</sup> (yd3)	% of Planned	% Complete	
Haulage to Pit 4								
SWRP	0	476		577,147	1,180,144	204%	156%	
HSWRP	1,889	0	0%	58,379	2,828	5%	4%	
Pit 4 Overburden	0	0		341,740	321,748	94%	96%	



	Rep	orting Perio	d	Year-to-date			Annual
Material	Planned Production (yd3)	Estimated Volume <sup>1</sup> (yd3)	% of Planned	Planned Production (yd3)	Estimated Volume <sup>1</sup> (yd3)	% of Planned	% Complete
CSZ Cleanup	0	0		4,916	28,700	584%	574%
Pit 3 Sediments	0	0		35,000	0	0%	0%
Total	1,889	476	25%	1,017,182	1,533,420	151%	133%
Aggregate Prod	luction						
Drain Gravel	8,500	2,875	34%	266,900	203,164	76%	67%
Liner Bedding	0	0		9,250	9,414	102%	102%
Geomembrane Bedding	8,500	3,174	37%	266,900	195,732	73%	51%
Total	17,000	6,049	36%	543,050	408,310	75%	59%

<sup>1 -</sup> Truck load assumed to be 27 yd3

#### **Stormwater Pollution Prevention Plan (SWPPP)**

- Completed SWPPP inspection on October 25. No deficiencies or required changes identified.
- Newmont shaped the west side of the SWRP to flow to a collection sump where stormwater will be pumped to the South Pond.
- Newmont continued construction of the sediment pond at the end of the SWRP East SWPPP Ditch.
- SLV started grading the HSWRP crusher pad for winter drainage.
- Halme Construction installed additional SWPPP control along the effluent pipeline and graded construction areas for stormwater drainage.

## **Spill Prevention, Control, and Countermeasure Activities (SPCC)**

No spills were reported during this week.

#### **Equipment Mobilized/Demobilized and Material Delivered**

The following equipment was mobilized to the Site during this reporting period:

None.

The following equipment was demobilized from the Site during this reporting period:

Halme Equipment

All project owned non-road diesel equipment on Site is US-EPA Tier 4 compliant. On-site rental equipment and subsequent deliveries of rental equipment may be less than Tier 4 and will be assessed at the time of delivery.

The following material was delivered to the Site during this reporting period:

None.

# **CONSTRUCTION QUALITY ASSURANCE**

#### **Dust Control and Monitoring**

None during this time-period. The meteorological station is operational and located in the parking area west of Trailer Village.



## **Project Documentation**

Project CQA-CQC Field Acceptance Forms, Engineering Change Notices (ECNs), Design Clarification Notices (DCNs), Non-Compliance Notifications (NCNs), Requests for Information (RFIs), Submittals, and Other Items received during this time-period are shown in the table below:

## CQA Documentation -Reporting Period October 29 - November 4, 2021

CQC-CQA Field	Acceptance Forms		
Acceptance No.	Title		CQC-CQA Issue Date
*2021-17	Stainless Steel Passivation Alternative Proced 2021 Annual Inspection of South Pond Piping Mine Site - South Pond  CQA Received Requested CQC Clarification Documentation on 11/2/2021 - sent to the E 11/5/2021.	10/4/2021 - 11/5/2021 EPA - TBD	
Project DCNs			
DCN No.	Title	Submittal Date	EPA Response Date
None			
Project ECNs			
ECN No.	Title	Submittal Date	EPA Response Date
*2021-01	Monitoring and Control of Phreatic Levels in the South Pond Embankment  Mine Site – South Pond  The EPA requested a Final Report be prepared (including all test data)  Stantec received laboratory test data on 9/14/2021 and is in the process of preparing a Final Report.  Newmont received the completed Lab Data Summary Memo and approved it on 10/26/2021. The Memo was sent to the EPA on 10/27/2021 for review.	3/19/2021	Conditional EPA Approval Received on 5/11/2021  Final EPA Approval Received for the Summary Report on 8/20/2021  EPA Approval of Final Report - TBD
Notice of Non-C		T	
NNC No. and Dates	Title/Description	CQA	CQA/EPA Response Date(s)
<b>*</b> 2021-01	New Access Road - Asphalt Compaction New Access Road  Sent to Halme Construction on 10/29/2021 for their proposed corrective action plan.  Received Halme Construction corrective action on 11/2/2021.	10/29/2021	CQA - TBD <i>EPA - TBD</i>
Project RFIs	T		CQA/EPA Response
RFI No.	Title	CQC Submittal Date	Date(s)
<b>*</b> 2021-07	Regulatory Jurisdiction for Use of Explosives in the Mined Area (UDS Sump Blasting in Pit 3 – WAC vs. NFPA)  Mine Site – Pit 3  WME conducting research to respond to this RFI.	8/23/2021	CQA - TBD EPA - TBD



	WME to send out an email to all to clarify the regulatory requirements.		
*2021-09 (priority)	Clarification of Harrowing Requirements  Mine Site and Effluent Pipeline	10/25/2021	CQA – 11/3/2021 EPA - TBD
*HC-2021-13	Culvert Replace and Install Requirements Effluent Pipeline  Received EPA comment on 10-14-2021 regarding minimum longitudinal slopes of 0.5% on culvert inlets and outlets – specify how will this be achieved for the 48-inch culvert.  Received revised RFI from Stantec on 10/26/2021 addressing EPA's comment on slopes.  Received Brian Crossley (STOI) comments on 11/2/2021 for the 48-inch	9/22/2021	CQA – 10/14/2021 Revised RFI CQA – 10/30/2021 Stantec - 11/1/2021 EPA - TBD
*HC-2021-14	culvert. EPA to provide input based on BC comments.  Pipe Bury Depth Change Request Effluent Pipeline  Stantec Engineering Requested Additional Information from Halme on 9/30/2021 - Grade Shots from Hubs for Item No. 1 (confirm 4 feet of cover).  Grading is complete along the Jeep Trail - additional grade shots will be taken on 10-26-2021.  Received Halme data on pipe bury depths on 11/2/2021 for Item No. 1	9/27/2021	CQA – TBD Stantec TBD EPA - TBD
*HC-2021-16	Durability Index Test for Riprap Material around Culvert Installed on Lead-Off Ditch and Blue Creek Road Bank Stabilization  New Access Road and Effluent Pipeline	10/12/2021	CQA – 10/30/2021 Stantec – 11/2/2021 <i>EPA - TBD</i>
*HC-2021-17	Direction on What to Do with Large Boulders Excavated During Pipe Burial Operations Effluent Pipeline	10/13/2021	CQA – 11/5/2021 Stantec – TBD EPA - TBD
*HC-2021-20	Use of Non-Spec. Type O Riprap - NAR Lead-Off Culvert New Access Road	10/29/2021	CQA – 11/4/2021 Stantec – 11/4/2021 <i>EPA – TBD</i>
*WTP-2021-03	Spec Section Relevance New WTP  Stantec conducted review of specifications.	9/16/2021	CQA – 10/31/2021 Stantec – 11/3/2021 <i>EPA - TBD</i>



*WTP-2021-04	Filter Press Clarifications 11563 - Recessed Plate Filter Press New WTP	10/13/2021	CQA – 10/30/2021 Stantec - TBD EPA - TBD
*WTP-2021-05	Generator Confirmation Sheet 9-7-2 Key Note 6 New WTP	10/13/2021	Stantec – 10/21/2021 CQA – 10/30/2021 <i>EPA - TBD</i>
*WTP-2021-06	Lime Silo Clarifications 11267 - Lime Storage and Feed System New WTP	10/15/2021	CQA – 10/30/2021 Stantec – 10/30/2021 <i>EPA - TBD</i>
*WTP-2021-07	RO Line Spillway Transition File Name 10-96, Sheet 10-99 New WTP  CQA question for Design Engineer re additional pipeline loads	10/15/2021	CQA – TBD Stantec - TBD EPA - TBD
*WTP-2021-08	RO Connection at Tank File Name 10-96, Sheet 10-100 New WTP	10/15/2021	CQA – 11/5/2021 Stantec - TBD EPA - TBD
*WTP-2021-09	DensaDeg Steel Tanks 11225 - 2.2.A New WTP	10/15/2021	CQA – TBD Stantec - TBD EPA - TBD
*WTP-2021-10	Motor Corrosive Atmosphere Rating 16460 – 2.06.C.4.d New WTP	10/18/2021	CQA – 11/4/2021 Stantec – 11/5/2021 <i>EPA - TBD</i>
*WTP-2021-11	Collector Arm Scraper Coating 11225 – 2.6.A New WTP	10/18/2021	CQA – 11/4/2021 Stantec – 11/5/2021 <i>EPA - TBD</i>
*WTP-2021-12	Solids Recycle Tank Material 11225 – 1.2.C New WTP	10/19/2021	CQA – TBD Stantec - TBD EPA - TBD
WTP-2021-13 priority	Pre-Engineered Metal Building (PEMB) Roof & Side Panels 13121 – 2.2 and 2.3 New WTP	10/29/2021	CQA – 11/2/2021 Stantec – 11/3/2021 Received EPA Approval on 11/4/2021
*WTP-2021-14	Collector Arm Scraper Coating New WTP	11/2/2021	CQA – TBD Stantec - TBD EPA - TBD
*WTP-2021-15	Brace Connection New WTP	11/2/2021	CQA – TBD Stantec - TBD EPA - TBD
Submittals	<u>'</u>	<u> </u>	<u> </u>
Submittal No.	Title	CQC Submittal Date	CQA/EPA Response Date(s)



<u></u>			
*02272-15.01	South Pond Geomembrane – 2021 Liner Repairs	6/21/2021 Revised 9/21/2021	CQA - 7/22/2021
	Mine Site – South Pond	11011000 0,2 1,2021	Received EPA
	EPA Requested South Pond Liner Repair		Approval with Comments on
	(patch drawing) with CQA notes added to Submittal.		9/15/2021
			CQA – 9/25/2021
			EPA Final Review
*02272-16.02	South Pond Liner Repair Data for June 8 through July 1, 2021	7/7/2021 <b>Revised 9/21/2021</b>	CQA – 7-22-2021
	Mine Site - South Pond		Received EPA
	EPA Requested explanation of the South		Approval with Comments on
	Pond berm "curb repair/retrofit" with picture		9/15/2021
	added to the Submittal.		CQA – 9/25/2021
			EPA Final Review
01560-01	Gorilla Snot Soil Stabilization and Dust	10/5/2021	CQA - 10/25/2021
	Control Mine Site – Pit 4 and South Pond		Received EPA Approval on 11/2/2021
			, , , p, c , a, c , , , , , , , , , , , , , , ,
	On 10/27/2021, the EPA requested additional product data from the		
	manufacturer.		
	EPA comment: Assess effectiveness of		
	product after application this season for future use on site.		
*02970-09	Mulch and Ground Stabilization Mine Site	10/5/2021	CQA – 10/25/2021 <b>EPA - TBD</b>
			EFA-160
	Engineering response revised on 10/25/2021		
*02272-18	South Pond Liner Repairs – 9/14/2021  Mine Site – South Pond	10/6/2021	CQA – 10/11/2021 <b>EPA - TBD</b>
*02970-12	Revegetation	10/25/2021	CQA - 11/1/2021
priority	Effluent Pipeline		Stantec – 11/3/2021 <i>EPA - TBD</i>
*HC-01532-01	Site Pre-Construction Survey for Blue Creek	9/14/2021	CQA - 9/25/2021
	Road Effluent Pipeline		EPA TBD
*HC-02593-05	All Manhole Leak Tests	10/11/2021	CQA – 11/5/2021
HC-02593-05	Effluent Pipeline		EPA - TBD
*HC-02200-10	Copenhaver (Wilbur Pit) Base Course	10/19/2021	CQA - 11/5/2021
priority	Gradation and Proctor New Access Road		EPA - TBD
*	60-Day Bar Chart Schedule	10/12/2021	CQA – TBD
*WTP-01310-1	New WTP	10,12,2021	EPA - TBD
	Newmont/Stantec - No exception taken		
*WTP-01310-2	Initial Schedule	10/12/2021	CQA – TBD
VV 1 F - U 13 1U-2	New WTP		EPA - TBD
	CQA questions on submittal/schedule		



<b>*</b> WTP-02594-1.1	HDPE Pipe PDS New WTP	10/15/2021 <b>11/2/2021</b>	CQA – TBD <b>EPA - TBD</b>
	Product Resubmittal on 11/2/2021		
*WTP-02596-1 priority	HDPE Dual-Containment PDS New WTP	10/15/2021	CQA – 11/3/2021 <b>EPA - TBD</b>
*WTP-16420-1	Service Entrance Section New WTP	11/3/2021	CQA – 11/3/2021 <b>EPA - TBD</b>
*WTP-16440-1	Disconnect Switches New WTP	11/3/2021	CQA – 11/3/2021 <b>EPA - TBD</b>
*WTP-16441-1	Transformers – Dry Type New WTP	11/3/2021	CQA – 11/3/2021 <b>EPA - TBD</b>
*WTP-16462-1	Liquid Filled MV Transformers New WTP	11/3/2021	CQA – 11/3/2021 <b>EPA - TBD</b>
*WTP-16470-1	Panel Boards New WTP	11/3/2021	CQA – 11/3/2021 <b>EPA - TBD</b>
*WTP-16500-1	Lighting New WTP	11/3/2021	CQA – 11/3/2021 <b>EPA - TBD</b>
*WTP-16622-1	Stand-by Diesel Electric Generator New WTP	11/3/2021	CQA – 11/3/2021 <b>EPA - TBD</b>
*WTP-15201-1	Valve Actuators (Dezurik & Hayward) New WTP	11/3/2021	CQA – 11/3/2021 <b>EPA - TBD</b>
*WTP-15230-1	Misc. Valves – Safety Exhaust Valves New WTP	11/3/2021	CQA – 11/3/2021 <b>EPA - TBD</b>
*WTP-15202-1	Hayward Butterfly Valves New WTP	11/3/2021	CQA – 11/3/2021 <b>EPA - TBD</b>
*WTP-15203-1	Hayward Check Valves New WTP	11/3/2021	CQA – 11/3/2021 <b>EPA - TBD</b>
*WTP-15204-1	Hayward Ball Valves New WTP	11/3/2021	CQA – 11/3/2021 <b>EPA - TBD</b>
Other Items			
Date	Title		Comments
None		·	

<sup>\*</sup> New Documentation Received

Copies of the CQA Logs are being updated and will be located on the project SharePoint site under the 2021 CQA Folder.

## **Site Inspections**

Details regarding the four-phase CQA observation/inspection process for each definable work feature are summarized below and are further detailed in the daily CQC/CQA reports that are available on the project SharePoint site.

<sup>\*</sup> Engineer/CQA Acceptance/Information Pending

<sup>\*</sup> EPA Acceptance Pending



## **Preparatory Inspections / Meetings**

• None

## **Initial Phase Inspections**

• None

## **Follow-up Phase and Ongoing Inspections**

• Effluent Pipeline – BMP Inspections

## **Completion Inspections**

• None

## THREE WEEK LOOKAHEAD SCHEDULE

A copy of the Three Week Lookahead Schedule is provided as Attachment A.

Report completed and submitted by:

Andrew Liffring, P.E.

**Project Construction Director** 

#### Attachments

• Attachment A – Midnite Mine 3 Week Lookahead Schedule

Photos of pertinent items are provided below.





Figure 1 – Conditions in Pit 4, view looking south from the Pit 4 Overlook.



Figure 2 – Detail view of the repaired friction sleeve on the Pit 4 Waste Rock Dewatering Sump riser.





Figure 3 – Rerouting the HDS Pipeline from Pit 3 to the South Pond, view looking west.



Figure 4 – Progress of the SWRP East SWPPP sediment pond, view looking west.





**Figure 5** – Soils tech from Budinger and Associates performing density test on the Effluent Pipeline trench backfill between Station 106+00 to Station 121+50.



## **ATTACHMENT A**

## MIDNITE MINE THREE WEEK LOOKAHEAD SCHEDULE







	Midnite Mine RAWP - Three Week Look Ahead						Data Date: 05-Nov-21 Print Date: 08-Nov-21
Activity ID	Activity Name	RD	% Complete	Start	Finish	Oct 31	Fri Sat Sun Mon Tue Wed Thr
26-P2610	RFI 016 Overhead Hoist Clarifications	3d	0%	03-Nov-21 A	09-Nov-21		
26-1. Effluer	nt line	80d		07-Jun-21 A	25-Jul-22		
26-3070	Erosion Control BMP's & Site Controls	80d	85%	07-Jun-21 A	25-Jul-22		
26-3090	Material Staging & Pipe Fusing	66d	55%	07-Jun-21 A	05-Jul-22		
27. Produce	drain rock and other materials necessary for the sub-waste liner s	96d		29-Mar-21 A	16-Aug-22		
27-1000	Produce Drain Gravel for Pit 3	91d	75%	29-Mar-21 A	09-Aug-22		
27-1030	Haul Drain Gravel, Stockpile (301k cy)	96d	75%	29-Mar-21 A	16-Aug-22		
28. Initiate o	construct of the Pit#3 sump including initial construction of underc	106d		16-Sep-21 A	08-Apr-22		
28-1160	Route PCP, Blood Pool, from Pit #3 to South Pond	6d	0%	04-Oct-21 A	08-Apr-22		
28-1190	Route Pit #4 temporary dewatering line to South Pond	6d	0%	05-Oct-21 A	08-Apr-22		
28-1200	Re-route surface water drainage features from Pit 3 and Area 5 to	12d	0%	01-Oct-21 A	22-Nov-21		
28-1320	Transfer water from Pit #3 to South Pond (1,000 GPM)	6d	95%	16-Sep-21 A	08-Apr-22		